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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/777,323	02/12/2004	Mark D. Dvorak	Honeywell No. H0005845	5548
7590 06/27/2005			EXAMINER	
Matthew Luxton Honeywell International, Inc. 101 Columbia Road P.O. Box 2245 Morristown, NJ 07962-2245			NGUYEN, KHAI M	
			ART UNIT	PAPER NUMBER
			2819	

DATE MAILED: 06/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

AK

**Office Action Summary**

Application No.

10/777,323

Applicant(s)

DVORAK, MARK D.

Examiner

Khai M. Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 12 February 2004.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-29 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 15-29 is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☒ Claim(s) 11-14 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 2/12/2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>5/20/2004</u> . | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Specification***

1. The application has not been checked to the extent necessary to determine the presence of all possible typographical and grammatical errors. However, Applicant's cooperation is requested in correcting any errors of which he/she may become aware in the application.

### ***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Vyne et al. (US 5,059,921) (hereinafter referred to as "Vyne").

Regarding claim 1, Vyne discloses (Fig. 1) an operational amplifier for operating in a number of different operational modes (sleep/awake modes) wherein within each different mode the operational amplifier functions with different performance characteristics (column 2, lines 36+).

Regarding claims 2-3, Vyne discloses a multi-mode operational amplifier (see Fig. 1, for example), comprising: a differential amplifier (12) for amplifying a differential input signal received at the inputs ports (14/16) and providing the differential amplified signal at the outputs of the differential amplifier; and a mode selection circuitry (including: 20-26) coupled to the amplifier and arranged to provide control signals to

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control a number of different operational modes (sleep/awake modes – column 2, lines 36+) of for the multi-mode operational amplifier.

Regarding claim 4, Vyne discloses the amplifier of claim 1-2 is capable of providing at least five differential operational amplifier modes for the amplifier (sleep mode, awake mode, control the magnitude of the bias current drawn by the amplifier, high gain, low gain, high drain bias current mode, low drain bias current mode).

Regarding claim 5, Vyne discloses the differential operational modes include modes (sleep mode/ awake mode) having differential levels of performance characteristics of the amplifier (the amplifier operates differently in these modes).

Regarding claims 6, 8 & 9, Vyne discloses the differential modes include modes selected from the group consisting of disabled, minimally enabled, intermediately enabled, and maximally enabled (disabled: when the amplifier is fully a disabled or turned off; minimally enable: when the current regulator 22 is enable and allows only a low drain current for biasing the particular stages of amplifier 12; intermediately enabled: when the circuitry 26 is enabled; maximally enable: when input stage, intermediate stage, and output stage of the amplifier are turned on or enable causing the multimode amplifier linear – see, column 2, lines 36+).

Regarding claim 7, Vyne discloses the amplifier of claim 2, which includes selectable input/output stages arranged to be enable/disable (see Fig. 1 and its text).

Regarding claim 10, Vyne discloses when the amplifier is in the enable mode, a supply current to the amplifier (12) increases (column 2, lines 1-3).

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***Prior Art***

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure (see the attached PTO-892).
4. Claims 11-14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Claims 15-29 are allowed.


***Contact Information***

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khai M. Nguyen whose telephone number is 571-272-1809. The examiner can normally be reached on 9:00 - 5:30 Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert (Bob) J. Pascal can be reached on 571-272-1769. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KN  
June 21, 2005

  
PEGUY JEANNERRE  
PRIMARY EXAMINER